CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.09/KRIDL/CEMENT/2013-14

Date: 08.03.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements to Drains and Concrete Roads in Thindlu surrounding area in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/BBMP/VSD/PR/115/2013-14 Dated: 05.03.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	470 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.50 %	-

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Job No.: CTCE/BBMP/W.No.09/KRIDL/SAND/2013-14 : 08.03.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements to Drains and Concrete Roads in Thindlu surrounding area in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/115/2013-14 Dated: 05.03.2014

Date of Testing : 08.03.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	115	5.75	5.75	94.3	90-100
2.36	206	10.30	16.05	84.0	75-100
1.18	512	25.60	41.65	58.4	55-90
600 Micron	403	20.15	61.80	38.2	35-59
300 Micron	492	24.60	86.40	13.6	8-30
150 Micron	203	10.15	96.55	3.4	0-10

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Job No.: CTCE/BBMP/W.No.09/KRIDL/AGG/2013-14 : 08.03.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements to Drains and Concrete Roads in Thindlu surrounding area in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/115/2013-14 Dated: 05.03.2014

Date of Testing : 08.03.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25400**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	987	3.89	3.89	96.11	95-100
20	15463	60.88	64.76	35.24	30-70
10	5928	23.34	88.10	11.90	10-35
4.75	2652	10.44	98.54	1.46	

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.09/KRIDL/CUBE/2013-14

09.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to Drains and Concrete Roads in Thindlu surrounding area in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/115/2013-14 Dated: 05.03.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.03.2014	09.04.2014	8.165	493.4	21.93
2	12.03.2014	09.04.2014	8.374	526.5	23.40
3	12.03.2014	09.04.2014	8.267	512.7	22.79

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Job No.: CTCE/BBMP/W.No.09/KRIDL/CUBE/2013-14 11.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to Drains and Concrete Roads in Thindlu surrounding area in Ward No.09, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/115/2013-14 Dated: 05.03.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2014	11.04.2014	8.367	507.4	22.55
2	14.03.2014	11.04.2014	8.254	487.2	21.65
3	14.03.2014	11.04.2014	8.496	520.9	23.15

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Job No.: CTCE/BBMP/W.No.09/KRIDL/CUBE/2013-14 14.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.03.2014	14.04.2014	8.394	495.6	22.03
2	17.03.2014	14.04.2014	8.478	515.4	22.91
3	17.03.2014	14.04.2014	8.516	528.9	23.51

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